

For Research Use Only

CoraLite® Plus 647-conjugated IBA1 Monoclonal antibody

Catalog Number: CL647-66827

1 Publications



Basic Information

Catalog Number: CL647-66827	GenBank Accession Number: BC009474	Purification Method: Protein G purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 199	CloneNo.: 1C6A10
Source: Mouse	ENSEMBL Gene ID: ENSG00000204472	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
Isotype: IgG2a	UNIPROT ID: P55008	
Immunogen Catalog Number: AG28236	Full Name: allograft inflammatory factor 1	
	Calculated MW: 17 kDa	

Applications

Tested Applications: FC (Intra)	Positive Controls: FC (Intra) : THP-1 cells,
Species Specificity: human	FC : THP-1 cells,
Cited Species: mouse	

Background Information

AIF1, also named as G1, IBA1 or daintain/AIF-1, is a 143 amino acid cytoplasmic, inflammation response scaffold protein. It is constitutively expressed in monocytes and macrophages and is known to be involved in macrophage activation. It is a marker of activated macrophage. Despite a lack of detailed knowledge on the in vivo physiological functions of AIF-1, there is growing evidence that shows its aberrant expression contributes to the pathogenesis of many autoimmune diseases, including rheumatoid arthritis. (20944424). AIF1 is an actin-binding protein that enhances membrane ruffling and RAC activation. It enhances lymphocyte migration and the actin-bundling activity of LCP1. AIF1 plays a role in RAC signaling and in phagocytosis and a role in vascular inflammation. AIF1 promotes the proliferation of vascular smooth muscle cells and of T-lymphocytes. It is also as a microglial cell marker.

Notable Publications

Author	Pubmed ID	Journal	Application
Jian Lu	40041886	Acta Pharm Sin B	

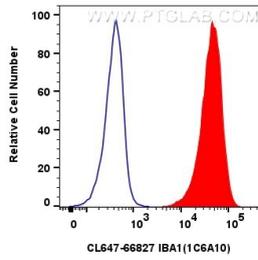
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1×10^6 THP-1 cells were intracellularly stained with 0.8 μ g CoraLite® Plus 647-conjugated IBA1 Monoclonal antibody (CL647-66827, Clone:1C6A10)(red), or 0.8 μ g CoraLite® Plus 647 Mouse IgG2a isotype control (11A1B2) (CL647-66360-2, Clone: 11A1B2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).